

**FY 2003 Trend Results
Based on AEOD and ASP Indicators**

**Indicators Originally Developed by the Former Office of AEOD and
Accident Sequence Precursor (ASP) Indicators**

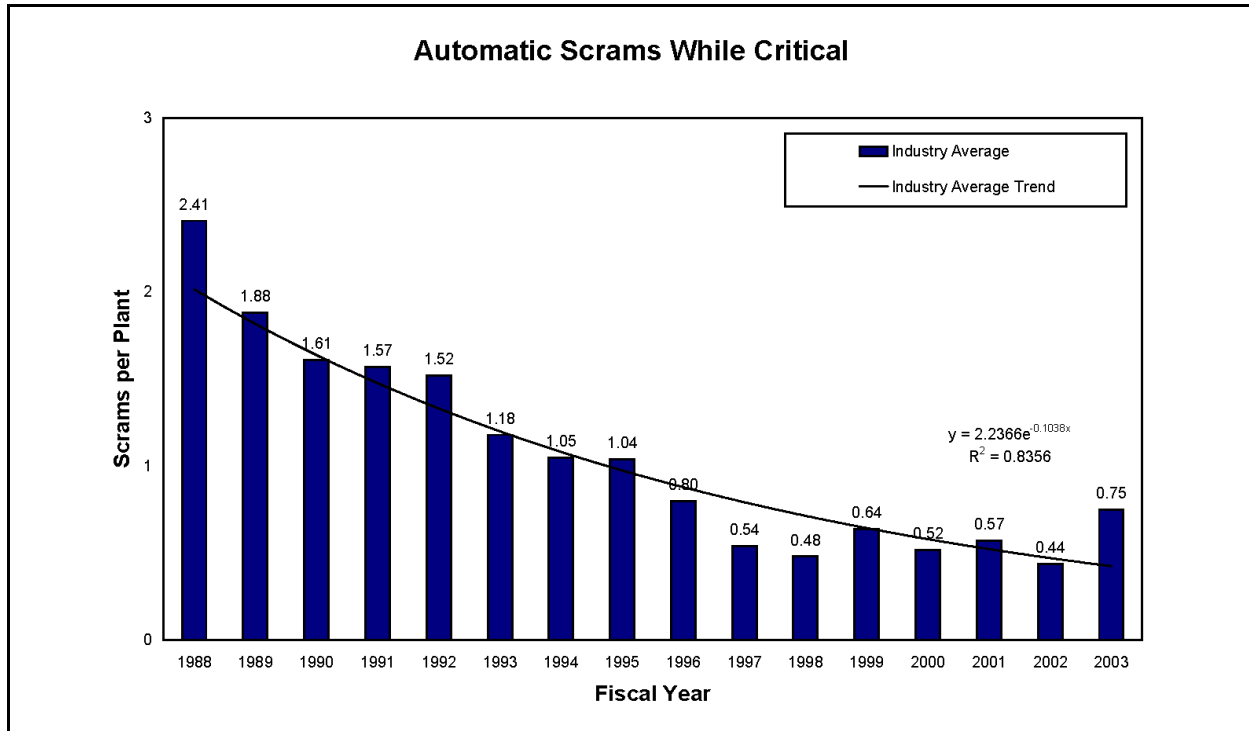


Figure A1-1

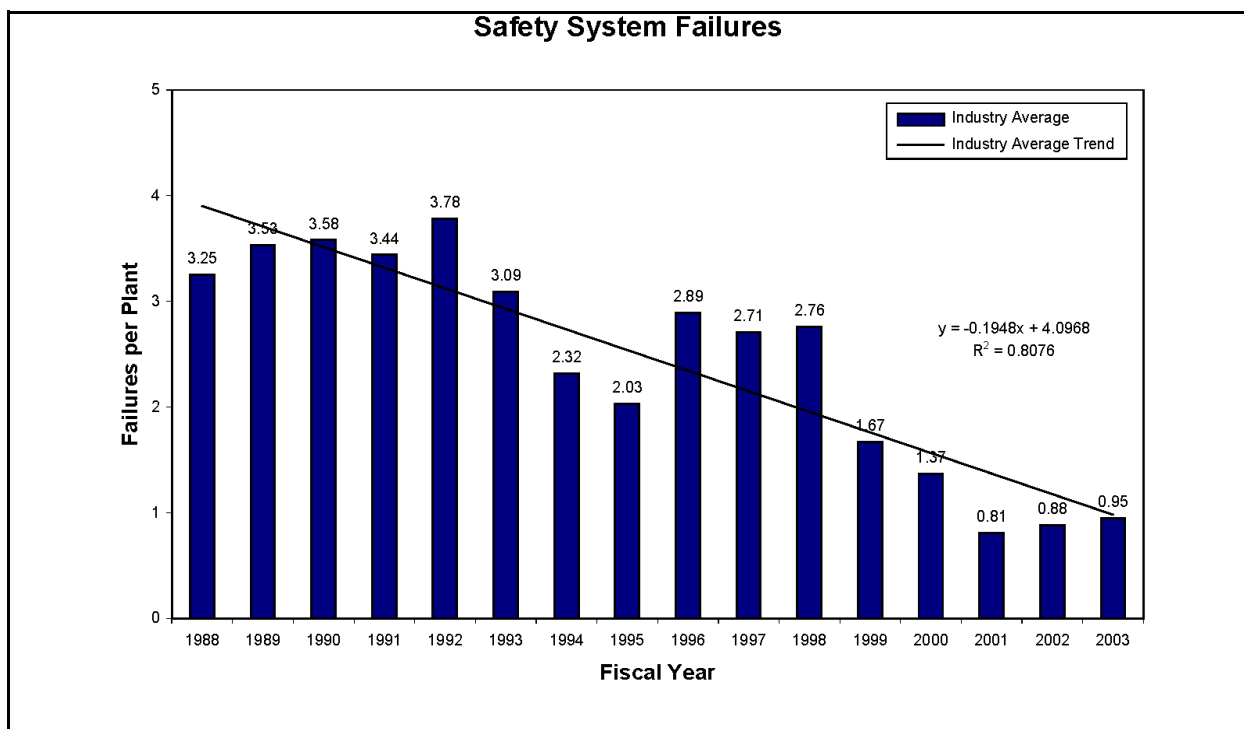


Figure A1-2

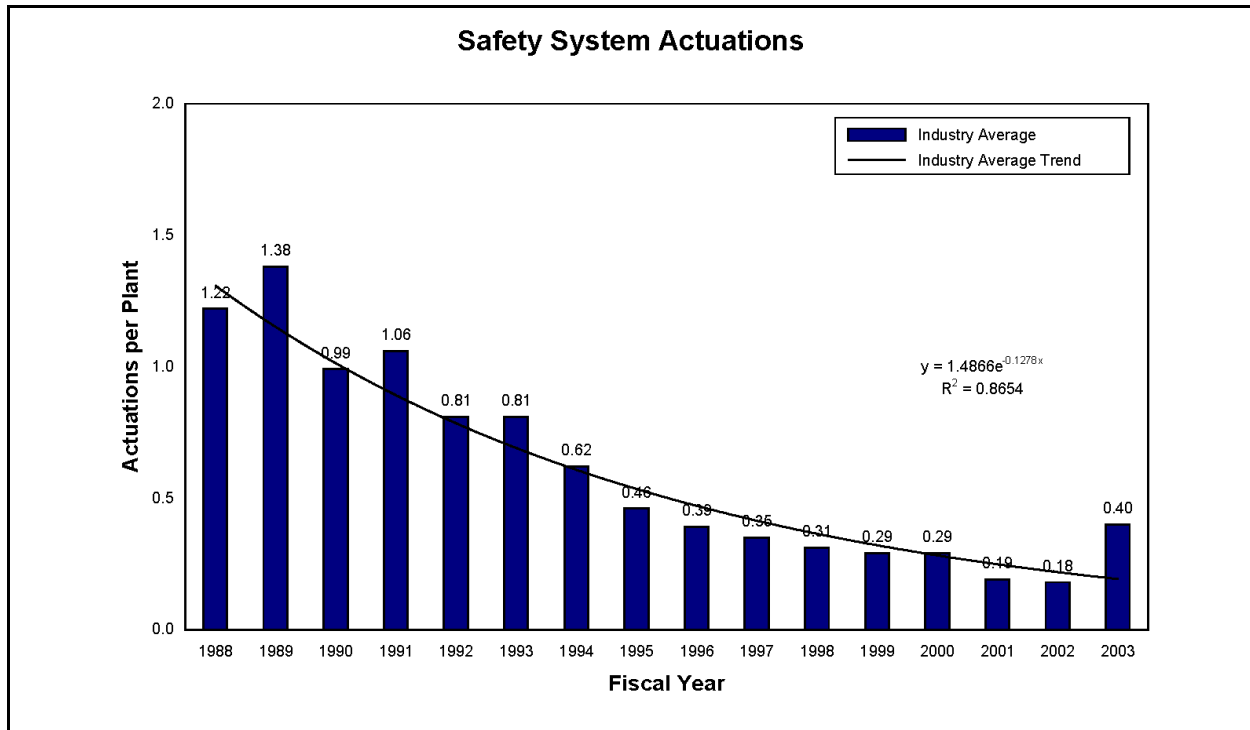


Figure A1-3

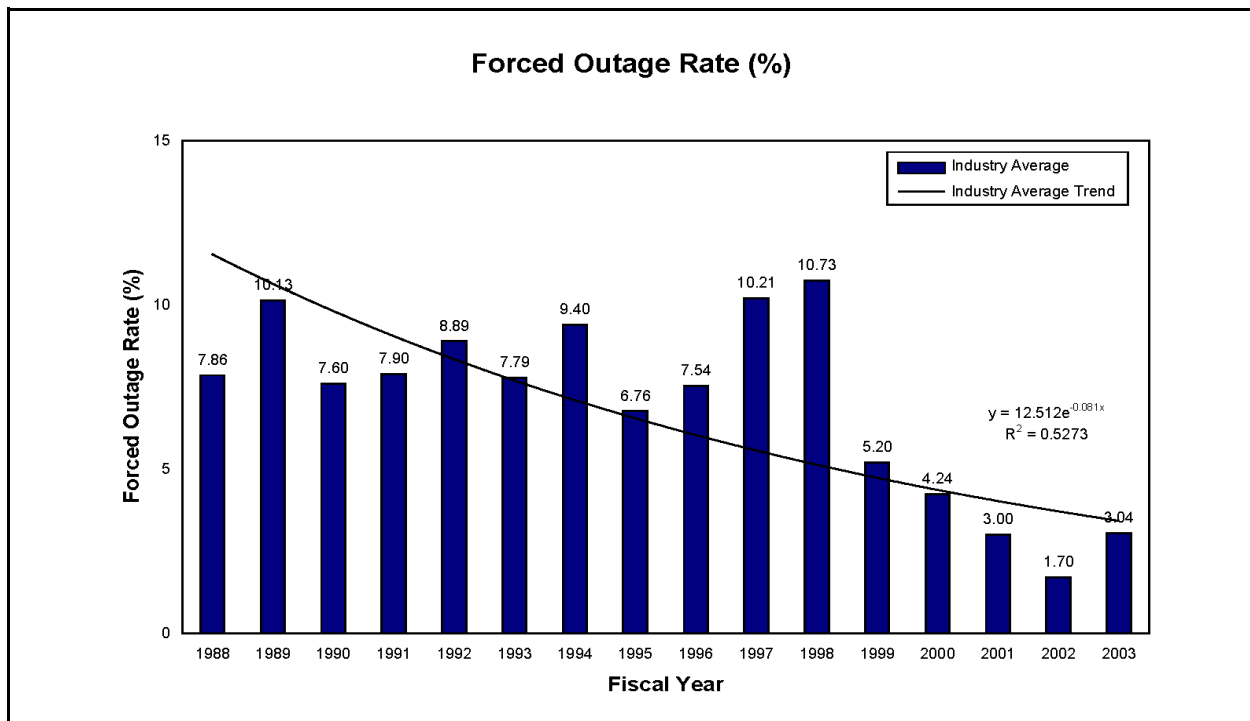


Figure A1-4

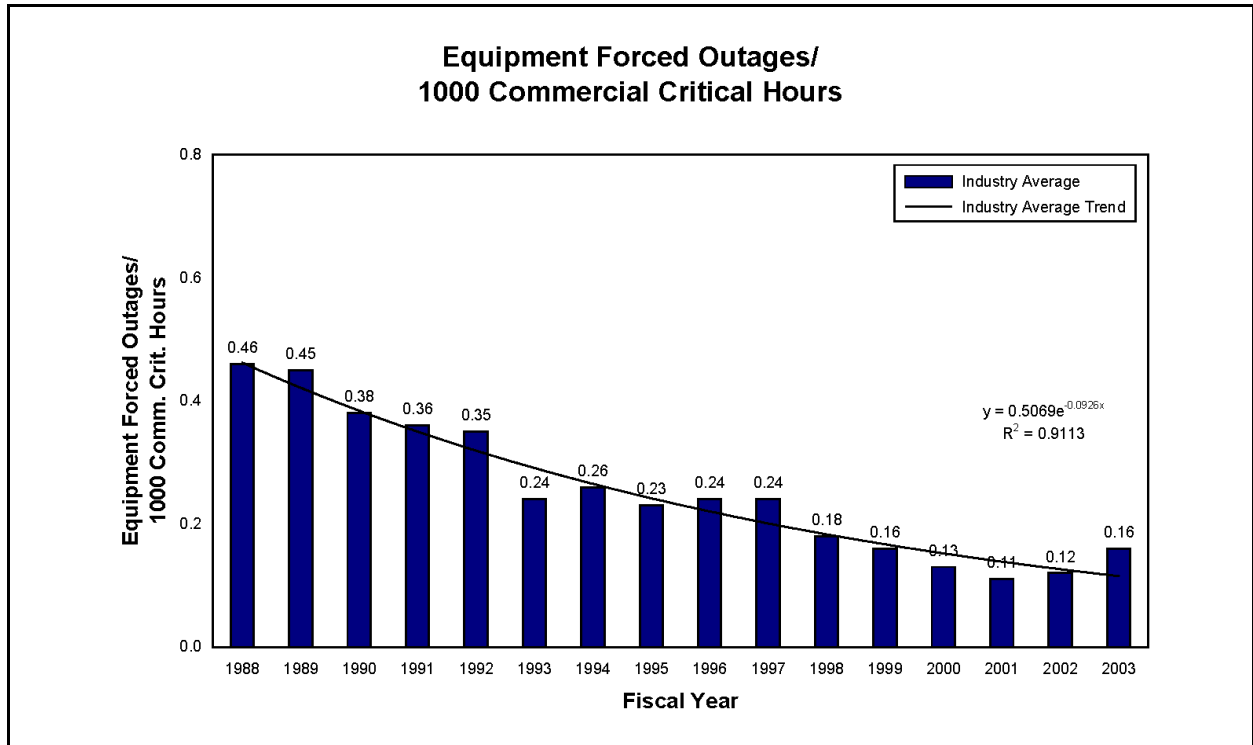


Figure A1-5

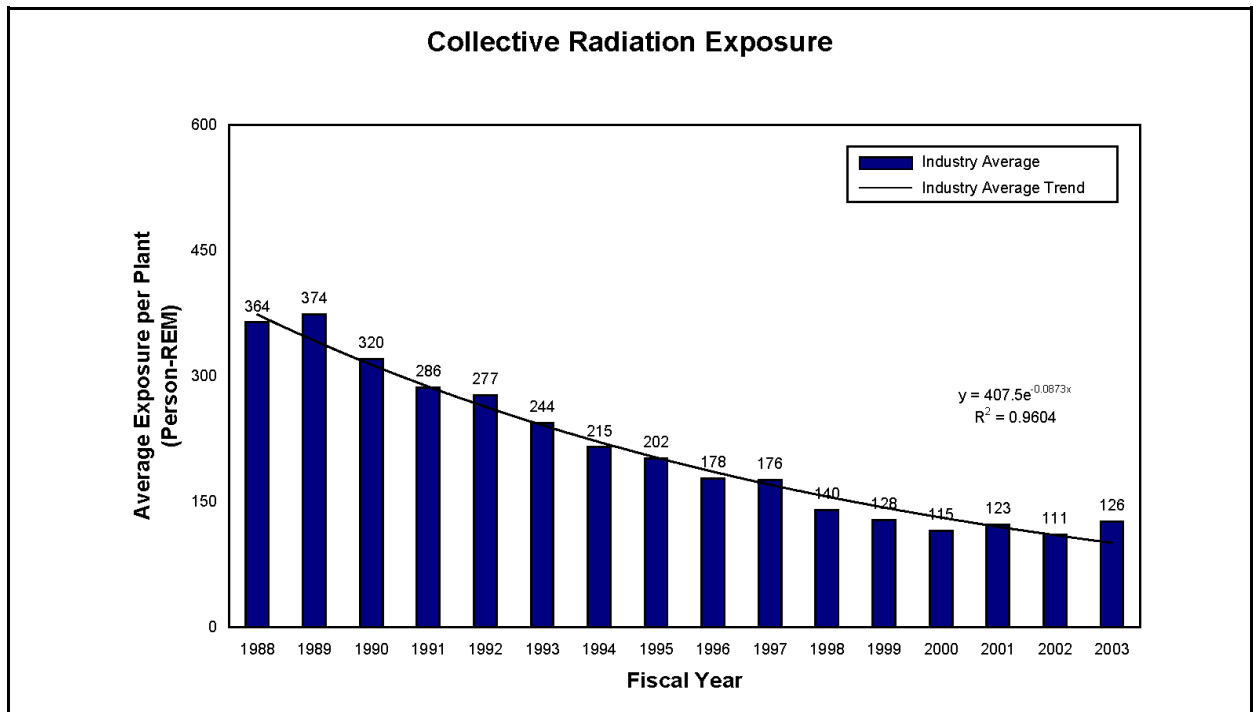


Figure A1-6

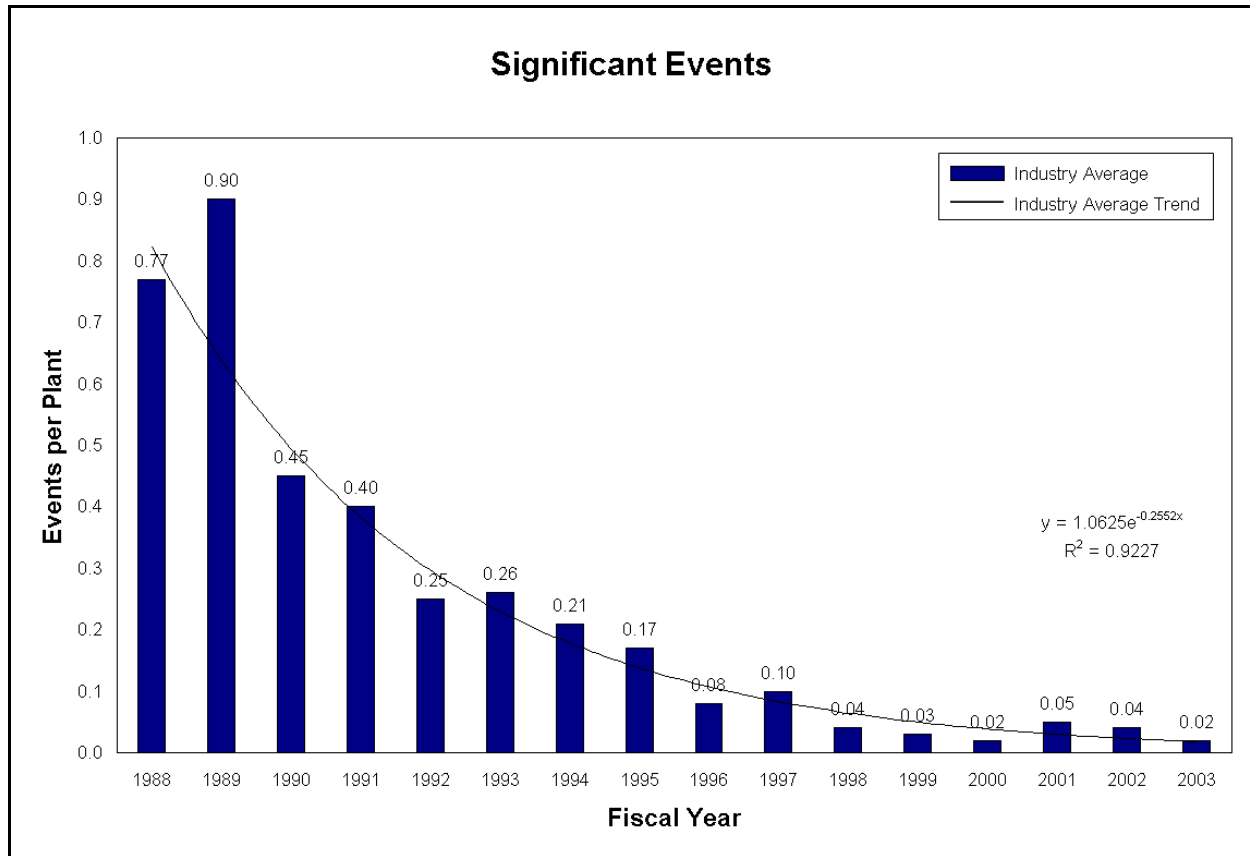


Figure A1-7

Accident Sequence Precursor Trends

Figure A1-8 below shows the occurrence rate per reactor-year for all Accident Sequence Precursor (ASP) events by fiscal year. No statically significant adverse trend was observed in the occurrence rate for all precursor (CCDP or Δ CDP $> 10^{-6}$) during the 1993–2001 period. The trend is based on the number of all precursors starting in FY 1993. ASP results prior to FY 1993 use less rigorous methodology and are shown in the figure to provide historical perspective.

No trend was identified in the occurrence rate of all precursors during the 1993–2001 period. The FY 1993–2000 data is final. Several analyses of FY 2001 events are ongoing. This includes conditions involving the primary water stress corrosion cracking of control rod drive mechanism (CRDM) nozzles which require the completion of the RES probabilistic analysis of the time dependent failure frequencies of the CRDM nozzles. CRDM cracks were found at nine plants in FY 2001 and FY 2002 and may result in nine precursors. The on-going analysis of seven events in FY 2001 are conservatively included in the trending analysis.

Preliminary results for FY 2002 and FY 2003 are provided for information. The bar graph includes final results and preliminary results that have undergone internal staff review, as well as on-going analysis of potential precursors. Not all of these ongoing analyses will necessarily meet the precursor threshold when completed. Typically, 30 to 50 events per year undergo detailed analysis in the ASP Program of which more than half do not meet the precursor threshold upon further analysis.

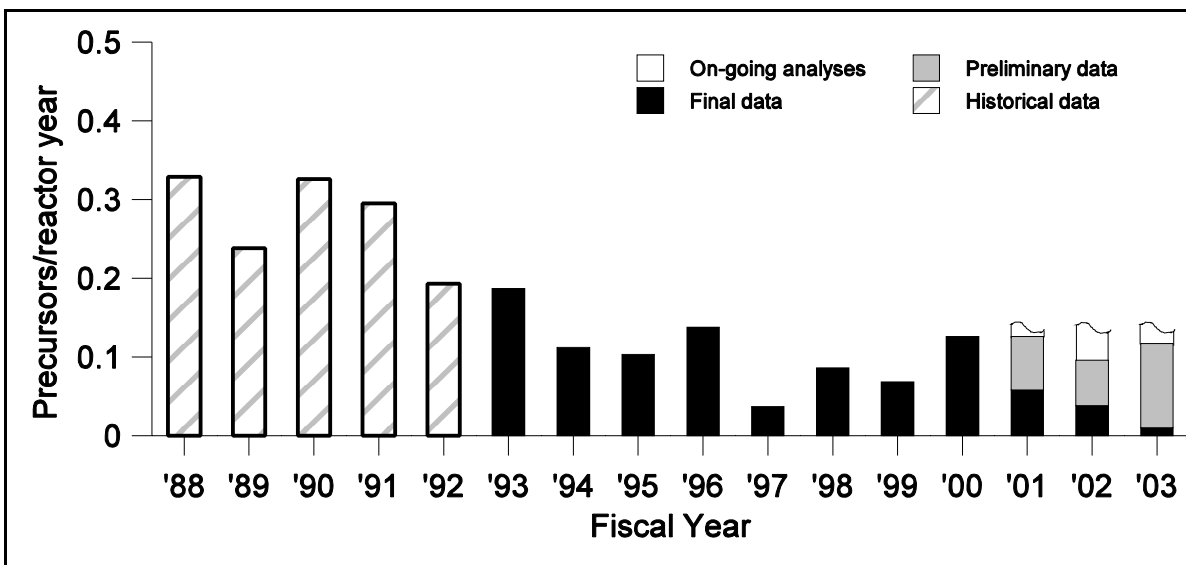


Figure A1-8. Occurrence rate of all precursors, by fiscal year. No trend was identified during the FY 1993–2001 period (on-going analysis of seven events in FY 2001 are conservatively included in the trend). A trend line is not shown in the figure because the slope is not statistically significant. Results are current as of 3/15/2004.